

Claims

We claim:

1. A method to enable a user of a wireless terminal to browse content, comprising:

monitoring browsing activity of a user of a wireless terminal;

storing content browsed by said user in a personal network cache;

analyzing said browsed content to determine frequently visited content;

and

transmitting, over said wireless network, said frequently visited content to a terminal cache of said wireless terminal to enable said user of said wireless terminal to locally browse said frequently visited content without having to establish a network connection to browse said content.

2. The method of claim 1 wherein said frequently visited content is of a type specified by said user of said wireless terminal.

3. The method of claim 1, further comprising:

identifying content related to said frequently visited content; and

transmitting said related content to a terminal cache of said wireless terminal to enable said user of said wireless terminal to locally browse said related content without having to establish a network connection.

4. The method of claim 3, wherein said related content is extracted from personal network caches of other wireless terminal users having similar interests to said user of said wireless terminal.

5. The method of claim 3, further comprising:

highlighting said frequently visited content to distinguish it from related content.

6. The method of claim 1 wherein said frequently visited content is transmitted to said wireless terminal as frequently as specified by said user of said wireless terminal.

7. The method of claim 6, further comprising:

highlighting portions of said frequently visited content that have changed since frequently visited content was last transmitted to the wireless terminal.

8. The method of claim 1 wherein said frequently visited content is transmitted to said wireless terminal at a time when the wireless network is less utilized.

9. The method of claim 1 further comprising:

deleting browsed content that does not qualify as frequently visited content.

10. The method of claim 1 further comprising:

formatting frequently visited content for presentation on said wireless terminal; and

deleting portions of frequently visited content that cannot be formatted for presentation on said wireless terminal.

11. The method of claim 3 further comprising:

retrieving latest versions of said frequently visited content from a data network.

12. The method of claim 1, further comprising:

receiving a class of delivery for transmitting said frequently visited content to said wireless terminal.

13. The method of claim 12 wherein said class of delivery, network capacity usage and size of said frequently visited content determines when said step of transmitting said frequently visited content is to occur.

14. The method of claim 12, further comprising:

receiving a user profile indicating a type of frequently visited content to be gathered and transmitted to the user.

15. The method of claim 1 wherein said frequently visited content comprises web pages.

16. A method to enable a user of a wireless terminal to browse data network-based content, comprising:

browsing data network-based content over a wireless connection;

receiving an update of frequently visited content over said wireless network;

storing said update of said frequently visited content in cache memory of said wireless terminal; and

locally browsing said frequently visited content from said cache memory without having to establish a network connection to browse said frequently visited content.

17. The method of claim 16, further comprising:

providing a user profile indicating a type of frequently visited content for which said user would like to receive an update.

18. The method of claim 16, further comprising:

providing a class of delivery for receiving said update of frequently visited content.

19. The method of claim 18 wherein said class of delivery is for a delayed delivery at a time when the wireless network is less utilized.

20. The method of claim 16 further comprising:

receiving content related to said frequently visited content;

storing said related content in cache memory of said wireless terminal; and

locally browsing said related content from said cache memory without

having to establish a network connection to browse said related content,

wherein said network connection is either a wireless network connection or a data network connection.

21. A wireless terminal, comprising:

a cache;

a memory device storing a program;

a processor in communication with said memory device;

said processor operative with said program to:

receive periodic updates of frequently visited content over a wireless network;

store one of said periodic updates of said frequently visited content in said cache; and

permit a user to locally browse said frequently visited content from said cache without having to establish a network connection to browse said frequently visited content.

22. The wireless terminal of claim 21, wherein said processor is further configured with said program to:

provide a user profile indicating a type of frequently visited content for which said user would like to receive periodic updates.

23. The wireless terminal of claim 21, wherein said processor is further configured with said program to:

provide a class of delivery for receiving said periodic updates of frequently visited content.

24. The wireless terminal of claim 23 wherein said class of delivery is for a delayed delivery at a time when the wireless network is less utilized.

25. A mobile browsing booster system, comprising:

a layer 7 switch equipped with a web proxy for monitoring data network-based browsing activity of a wireless terminal user;

a database for storing content browsed by said user in a personal network cache; and

a browsing agent for:

analyzing said content stored in said personal network cache to determine frequently visited content; and

transmitting said frequently visited content to a terminal cache of said wireless terminal to enable said user of said wireless terminal to locally browse said frequently visited content without having to establish a network connection to browse said frequently visited content.

26. The system of claim 25, wherein said browsing agent analyzes said content stored in said personal network cache to determine frequently visited content of a particular type specified in a user profile.

27. The system of claim 25, further comprising:

a mobile content delivery system for scheduling delivery of said frequently visited content to said terminal cache of said wireless terminal,

wherein said browsing agent transmits said frequently visited content to said terminal cache via said mobile content delivery system.

28. The system of claim 25, wherein said layer 7 switch equipped with a web proxy compares an identifier from a user's browsing session with information from a wireless user identity database to determine whether said browsing activity of said wireless terminal user should be monitored.

29. The system of claim 25, wherein said browsing agent retrieves content related to said frequently visited content and transmits said related content to said terminal cache of said wireless terminal.

30. The system of claim 29, wherein said browsing agent accesses the latest version of said frequently visited content and related content.

31. The system of claim 30, wherein,

said layer 7 switch equipped with a web proxy automatically synchronizes content browsed by said user of said wireless terminal or accessed by said browsing agent and stored in a cache of said web proxy with latest versions of said content available from web services; and

said browsing agent accesses the latest versions of said frequently visited content and said related content from said layer 7 switched equipped with said web proxy, rather than from said web services.

32. The system of claim 25, wherein said layer 7 switch equipped with a web proxy includes a cache divided into a plurality of personal network caches.

33. The system of claim 25, wherein  
said database is divided into a plurality of personal network caches, and wherein each of said plurality of network caches is assigned to a different user of a wireless terminal who has registered to receive updates of frequently visited content.

34. The system of claim 25, wherein said browsing agent converts frequently visited content into a format and size suitable for presentation on said wireless terminal of said user.

35. The system of claim 30, wherein said browsing agent highlights frequently visited content to distinguish it from related content.

36. The system of claim 25 wherein said browsing agent highlights portions of frequently visited content that have changed since frequently visited content was last transmitted to said terminal cache of said wireless terminal.

37. The system of claim 29, wherein said frequently visited content and said related content are stored in said personal network cache prior to transmission to said terminal cache of said wireless terminal.